

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America  
NEWS 2 "Ask CAS" for self-help around the clock  
NEWS 3 JUL 20 Powerful new interactive analysis and visualization software,  
STN AnaVist, now available  
NEWS 4 AUG 11 STN AnaVist workshops to be held in North America  
NEWS 5 AUG 30 CA/CAPLUS - Increased access to 19th century research documents  
NEWS 6 AUG 30 CASREACT - Enhanced with displayable reaction conditions  
NEWS 7 SEP 09 ACD predicted properties enhanced in REGISTRY/ZREGISTRY  
NEWS 8 OCT 03 MATHDI removed from STN  
NEWS 9 OCT 04 CA/CAPLUS-Canadian Intellectual Property Office (CIPO) added  
to core patent offices  
NEWS 10 OCT 06 STN AnaVist workshops to be held in North America  
NEWS 11 OCT 13 New CAS Information Use Policies Effective October 17, 2005  
NEWS 12 OCT 17 STN(R) AnaVist(TM), Version 1.01, allows the export/download  
of CAPLUS documents for use in third-party analysis and  
visualization tools  
NEWS 13 OCT 27 Free KWIC format extended in full-text databases  
NEWS 14 OCT 27 DIOGENES content streamlined  
NEWS 15 OCT 27 EPPFULL enhanced with additional content

NEWS EXPRESS JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT  
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005

NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS INTER General Internet Information  
NEWS LOGIN Welcome Banner and News Items  
NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that  
specific topic.

All use of STN is subject to the provisions of the STN Customer  
agreement. Please note that this agreement limits use to scientific  
research. Use for software development or design or implementation  
of commercial gateways or other similar uses is prohibited and may  
result in loss of user privileges and other penalties.

\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 14:25:39 ON 14 NOV 2005

=> index bioscience

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FULL ESTIMATED COST

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE,  
AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS,  
BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB,  
CROPU, DDFB, DDFU, DGENE, DISSABS, ...' ENTERED AT 14:25:50 ON 14 NOV 2005

74 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view  
search error messages that display as 0\* with SET DETAIL OFF.

=> bombyx (w) mori and (H-chain or L-chain) and fibroin  
11 FILE AGRICOLA

```

1    FILE ANTE
1    FILE BIOENG
26   FILE BIOSIS
9    FILE BIOTECHABS
9    FILE BIOTECHDS
10   FILE BIOTECHNO
14   FILE CABA
32   FILE CAPLUS
18  FILES SEARCHED...
1    FILE CEABA-VTB
98   FILE DGENE
9    FILE EMBASE
8    FILE ESBIODASE
34  FILES SEARCHED...
9    FILE GENBANK
3    FILE IFIPAT
3    FILE JICST-EPLUS
16   FILE LIFESCI
18   FILE MEDLINE
5    FILE PASCAL
54  FILES SEARCHED...
18   FILE SCISEARCH
4    FILE TOXCENTER
8    FILE USPATFULL
1    FILE USPAT2
3    FILE WPIDS
72  FILES SEARCHED...
3    FILE WPINDEX

```

25 FILES HAVE ONE OR MORE ANSWERS, 74 FILES SEARCHED IN STNINDEX

L1 QUE BOMBYX (W) MORI AND (H-CHAIN OR L-CHAIN) AND FIBROIN

=> d rank

```

F1    98    DGENE
F2    32    CAPLUS
F3    26    BIOSIS
F4    18    MEDLINE
F5    18    SCISEARCH
F6    16    LIFESCI
F7    14    CABA
F8    11    AGRICOLA
F9    10    BIOTECHNO
F10   9     BIOTECHABS
F11   9     BIOTECHDS
F12   9     EMBASE
F13   9     GENBANK
F14   8     ESBIODASE
F15   8     USPATFULL
F16   5     PASCAL
F17   4     TOXCENTER
F18   3     IFIPAT
F19   3     JICST-EPLUS
F20   3     WPIDS
F21   3     WPINDEX
F22   1     ANTE
F23   1     BIOENG
F24   1     CEABA-VTB
F25   1     USPAT2

```

=> file caplus biosis medline agricola  
COST IN U.S. DOLLARS

SINCE FILE : TOTAL  
ENTRY : SESSION

FULL ESTIMATED COST

2.36

2.57

FILE 'CAPLUS' ENTERED AT 14:28:22 ON 14 NOV 2005  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'BIOSIS' ENTERED AT 14:28:22 ON 14 NOV 2005  
Copyright (c) 2005 The Thomson Corporation

FILE 'MEDLINE' ENTERED AT 14:28:22 ON 14 NOV 2005

FILE 'AGRICOLA' ENTERED AT 14:28:22 ON 14 NOV 2005

=> bombyx (w) mori and (H-chain or L-chain) and fibroin  
1 FILES SEARCHED...

L2 87 BOMBYX (W) MORI AND (H-CHAIN OR L-CHAIN) AND FIBROIN

=> dup remove

ENTER L# LIST OR (END):12

PROCESSING COMPLETED FOR L2

L3 40 DUP REMOVE L2 (47 DUPLICATES REMOVED)

=> d ti 1-20

L3 ANSWER 1 OF 40 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Spider dragline silk protein fusion with fibroin H-chain peptide produced by transposon-mediated transformation and production in silkworm

L3 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Production of antigenic protein vaccines in silkworm for preventing and treating pathogenic microorganism- or virus-induced disease

L3 ANSWER 3 OF 40 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 1  
TI A fibroin secretion-deficient silkworm mutant, Nd-sD, provides an efficient system for producing recombinant proteins

L3 ANSWER 4 OF 40 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 2  
TI Analysis of ESTs and gene expression patterns of the posterior silk gland in the fifth instar larvae of silkworm, *Bombyx mori* L.

L3 ANSWER 5 OF 40 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Manufacture of silk protein-derived functional polypeptide compositions, their aqueous solutions, and their use for skin-care products

L3 ANSWER 6 OF 40 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Construction of detoxifying enzyme lipase B1 stable expression system and its expression in silkworm

L3 ANSWER 7 OF 40 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 3  
TI Targeting of human aFGF gene into silkworm, *Bombyx mori* L. through homologous recombination

L3 ANSWER 8 OF 40 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN DUPLICATE 4  
TI Sulfation of silk fibroin by chlorosulfonic acid and the anticoagulant activity.

L3 ANSWER 9 OF 40 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 5  
TI Assembly of the silk fibroin elementary unit in endoplasmic reticulum and a role of L-chain for protection of  $\alpha$ 1,2-mannose residues in N-linked oligosaccharide chains of fibrohexamerin/P25

L3 ANSWER 10 OF 40 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Method of expression of cytokine in silkworm regulated under silk gland specific promoter

L3 ANSWER 11 OF 40 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Development of recombinant human collagen-producing system using transgenic silkworms

L3 ANSWER 12 OF 40 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Sulfation of silk fibroin by chlorosulfonic acid and the anticoagulant activity

L3 ANSWER 13 OF 40 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 6  
 TI Transgenic silkworms produce recombinant human type III procollagen in cocoons

L3 ANSWER 14 OF 40 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Production of sericin a silk protein by the silkworm

L3 ANSWER 15 OF 40 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Construction of vector system for expressing spider 'tuoqiansi' protein gene in *Bombyx mori*

L3 ANSWER 16 OF 40 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Transgenic Insects: expressing green fluorescent protein-silk fibroin light chain fusion protein in transgenic silkworms

L3 ANSWER 17 OF 40 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 7  
 TI Homologues of fibroin L-chain and P25 of *Bombyx mori* are present in *Dendrolimus spectabilis* and *Papilio xuthus* but not detectable in *Antheraea yamamai*

L3 ANSWER 18 OF 40 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 8  
 TI Silk fibroin of *Bombyx mori* is secreted, assembling a high molecular mass elementary unit consisting of H-chain, L-chain, and P25, with a 6:6:1 molar ratio

L3 ANSWER 19 OF 40 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 9  
 TI Comparison of 5'-upstream sequence of fibroin gene of *Bombyx mandarina* and naked pupa

L3 ANSWER 20 OF 40 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 10  
 TI Gene targeting in the silkworm by use of a baculovirus

=> d ti 21-40

L3 ANSWER 21 OF 40 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 11  
 TI Hydrophobic interaction of P25, containing Asn-linked oligosaccharide chains, with the H-L complex of silk fibroin produced by *Bombyx mori*

L3 ANSWER 22 OF 40 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 12  
 TI Primary structure and possible functions of a trypsin inhibitor of *Bombyx mori*

L3 ANSWER 23 OF 40 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 13  
 TI Determination of the site of disulfide linkage between heavy and light chains of silk fibroin produced by *Bombyx mori*

L3 ANSWER 24 OF 40 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Transformation of neomycin resistance gene (neoR) into silkworm (

**Bombyx mori.** L.)

- L3 ANSWER 25 OF 40 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on  
STN DUPLICATE 14  
TI Control of expression of silk protein genes.
- L3 ANSWER 26 OF 40 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 15  
TI Production of a chimeric **fibroin** light-chain polypeptide in a  
**fibroin** secretion-deficient naked papua mutant of the silkworm  
**Bombyx mori**
- L3 ANSWER 27 OF 40 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on  
STN  
TI PRIMARY STRUCTURE OF THE SILK **FIBROIN** LIGHT CHAIN DETERMINED BY  
COMPLEMENTARY DNA SEQUENCING AND PEPTIDE ANALYSIS.
- L3 ANSWER 28 OF 40 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 16  
TI Tissue-specific and periodic changes in the nuclease sensitivity of the  
**fibroin** gene chromatin in the silkworm **Bombyx**  
**mori**
- L3 ANSWER 29 OF 40 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Regulation of **fibroin** gene expression and secretion of  
**fibroin** in the silk gland
- L3 ANSWER 30 OF 40 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 17  
TI Further evidence for importance of the subunit combination of silk  
**fibroin** in its efficient secretion from the posterior silk gland  
cells
- L3 ANSWER 31 OF 40 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on  
STN DUPLICATE 18  
TI CONTRASTIVE CHROMATIN STRUCTURE OF THE **FIBROIN H-**  
**CHAIN** GENE DURING THE MOLTING CYCLE OF THE SILKWORM **BOMBYX**  
**-MORI.**
- L3 ANSWER 32 OF 40 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 19  
TI Transposable genetic element found in the 5'-flanking region of the  
**fibroin H-chain** gene in a genomic clone from  
the silkworm **Bombyx mori**
- L3 ANSWER 33 OF 40 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 20  
TI Molecular cloning of the **fibroin** light chain complementary DNA  
and its use in the study of the expression of the light chain gene in the  
posterior silk gland of **Bombyx mori**
- L3 ANSWER 34 OF 40 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 21  
TI Sequence polymorphisms around the 5'-end of the silkworm **fibroin**  
**H-chain** gene suggesting the occurrence of crossing-over  
between heteromorphic alleles
- L3 ANSWER 35 OF 40 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on  
STN  
TI REDUCED LEVEL OF SECRETION AND ABSENCE OF SUBUNIT COMBINATION FOR THE  
**FIBROIN** SYNTHESIZED BY A MUTANT SILKWORM **BOMBYX-**  
**MORI ND-2.**
- L3 ANSWER 36 OF 40 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on  
STN  
TI STUDIES ON IMMUNOLOGICAL PROPERTIES OF **FIBROIN** HEAVY AND LIGHT  
CHAINS.
- L3 ANSWER 37 OF 40 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 22  
TI Predominant synthesis of **fibroin** heavy and light chains on the

membrane-bound polysomes prepared from the posterior silk gland of the silkworm, **Bombyx mori**

L3 ANSWER 38 OF 40 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
TI GENETIC ANALYSIS OF THE ND-S MUTATION IN THE SILKWORM **BOMBYX-MORI**.

L3 ANSWER 39 OF 40 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
TI LINKAGE ANALYSIS OF THE **FIBROIN** LIGHT CHAIN GENE IN THE SILKWORM **BOMBYX-MORI**.

L3 ANSWER 40 OF 40 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 23  
TI Sequence polymorphisms in the 5'-upstream region of the **fibroin H-chain** gene in the silkworm, **Bombyx mori**

=> bombyx (w) mori and (H-chain or L-chain) and fibroin and cleaving with petide with bonds

1 FILES SEARCHED...

L4 0 BOMBYX (W) MORI AND (H-CHAIN OR L-CHAIN) AND FIBROIN AND CLEAVIN G WITH PETIDE WITH BONDS

=> bombyx (w) mori and (H-chain or L-chain) and fibroin and cleaving with peptide with bonds

1 FILES SEARCHED...

L5 0 BOMBYX (W) MORI AND (H-CHAIN OR L-CHAIN) AND FIBROIN AND CLEAVIN G WITH PEPTIDE WITH BONDS

=> fibroin and cleaving with peptide with bonds

L6 0 FIBROIN AND CLEAVING WITH PEPTIDE WITH BONDS

=> bombyx (w) mori and (H-chain or L-chain) and fibroin and hydrolysis

1 FILES SEARCHED...

L7 0 BOMBYX (W) MORI AND (H-CHAIN OR L-CHAIN) AND FIBROIN AND HYDROLY SIS

=> bombyx (w) mori and (H-chain or L-chain) and fibroin and protease

1 FILES SEARCHED...

L8 3 BOMBYX (W) MORI AND (H-CHAIN OR L-CHAIN) AND FIBROIN AND PROTEAS E

=> d ti 1-3

L8 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Predominant synthesis of **fibroin** heavy and light chains on the membrane-bound polysomes prepared from the posterior silk gland of the silkworm, **Bombyx mori**

L8 ANSWER 2 OF 3 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
TI PREDOMINANT SYNTHESIS OF **FIBROIN** HEAVY AND LIGHT CHAINS ON THE MEMBRANE-BOUND POLYSOMES PREPARED FROM THE POSTERIOR SILK GLAND OF THE SILKWORM **BOMBYX-MORI**.

L8 ANSWER 3 OF 3 MEDLINE on STN  
TI Predominant synthesis of **fibroin** heavy and light chains on the membrane-bound polysomes prepared from the posterior silk gland of the silkworm, **Bombyx mori**.

=> d ab bib 1-3

L8 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN  
AB Membrane-bound polysomes were prepared from the posterior silk gland of the silkworm, *B. mori*, on the 4th-5th day in the 5th larval instar. The polysomes, when supplemented with a soluble fraction from the posterior silk gland, exhibited the elongation reaction of the growing polypeptide chains, but the initiation reaction of polypeptide synthesis was not demonstrated in this system. The predominant products synthesized on the membrane-bound polysomes were **fibroin** heavy chain (**H-chain**) and light chain (**L-chain**), whereas polypeptides of heterogeneous size classes were synthesized on the 105,000 g-sedimentable polysomes. A substantial fraction of the **fibroin L-chain** synthesized was bound to the **H-chain** by SS bonds. Most of the newly synthesized **fibroin H- and L-chains** on the membrane-bound polysomes were present within microsomal membrane vesicles, as indicated by their insensitivity to digestion with **proteases** in the absence of Triton X 100.

AN 1984:586286 CAPLUS

DN 101:186286

TI Predominant synthesis of **fibroin** heavy and light chains on the membrane-bound polysomes prepared from the posterior silk gland of the silkworm, *Bombyx mori*

AU Oyama, Fumitaka; Mizuno, Shigeki; Shimura, Kensuke

CS Dep. Agric. Chem., Tohoku Univ., Sendai, 980, Japan

SO Journal of Biochemistry (Tokyo, Japan) (1984), 96(4), 1143-53

CODEN: JOBIAO; ISSN: 0021-924X

DT Journal

LA English

L8 ANSWER 2 OF 3 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
AB Membrane-bound polysomes were prepared from the posterior silk gland of the silkworm, *Bombyx mori*, on the 4th to 5th day in the 5th larval instar. The polysomes, when supplemented with a soluble fraction from the posterior silk gland, exhibited the elongation reaction of the growing polypeptide-chains, but the initiation reaction of polypeptide synthesis was not demonstrated in this system. The predominant products synthesized on the membrane-bound polysomes were **fibroin** heavy chain (**H-chain**) and light chain (**L-chain**), while polypeptides of heterogeneous size classes were synthesized on the 105,000 + g-sedimentable polysomes. A substantial fraction of the **fibroin L-chain** synthesized was bound to the **H-chain** by disulfide bond. Most of the newly synthesized **fibroin H- and L-chains** on the membrane-bound polysomes were proved to be present within microsomal membrane vesicles because of their insensitivity to digestion with **proteases** in the absence of Triton X-100.

AN 1985:279177 BIOSIS

DN PREV198579059173; BA79:59173

TI PREDOMINANT SYNTHESIS OF **FIBROIN** HEAVY AND LIGHT CHAINS ON THE MEMBRANE-BOUND POLYSOMES PREPARED FROM THE POSTERIOR SILK GLAND OF THE SILKWORM *BOMBYX-MORI*.

AU OYAMA F [Reprint author]; MIZUNO S; SHIMURA K

CS LAB BIOCHEMISTRY, DEP AGRICULTURAL CHEMISTRY, TOHOKU UNIV, TSUTSUMIDORI-AMAMIYAMACHI, SENDAI, MIYAGI 980, JAPAN

SO Journal of Biochemistry (Tokyo), (1984) Vol. 96, No. 4, pp. 1143-1154.

CODEN: JOBIAO. ISSN: 0021-924X.

DT Article

FS BA

LA ENGLISH

L8 ANSWER 3 OF 3 MEDLINE on STN

AB Membrane-bound polysomes were prepared from the posterior silk gland of the silkworm, *Bombyx mori*, on the fourth to fifth day in the fifth larval instar. The polysomes, when supplemented with a

soluble fraction from the posterior silk gland, exhibited the elongation reaction of the growing polypeptide-chains, but the initiation reaction of polypeptide synthesis was not demonstrated in this system. The predominant products synthesized on the membrane-bound polysomes were **fibroin** heavy chain (**H-chain**) and light chain (**L-chain**), while polypeptides of heterogeneous size classes were synthesized on the 105,000 X g-sedimentable polysomes. A substantial fraction of the **fibroin L-chain** synthesized was bound to the **H-chain** by disulfide bond. Most of the newly synthesized **fibroin H- and L-chains** on the membrane-bound polysomes were proved to be present within microsomal membrane vesicles because of their insensitivity to digestion with **proteases** in the absence of Triton X-100.

AN 85104857 MEDLINE  
DN PubMed ID: 6520117  
TI Predominant synthesis of **fibroin** heavy and light chains on the membrane-bound polysomes prepared from the posterior silk gland of the silkworm, **Bombyx mori**.  
AU Oyama F; Mizuno S; Shimura K  
SO Journal of biochemistry, (1984 Oct) 96 (4) 1143-53.  
Journal code: 0376600. ISSN: 0021-924X.  
CY Japan  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 198503  
ED Entered STN: 19900320  
Last Updated on STN: 19900320  
Entered Medline: 19850314